The Living Cognitive Core (LCC)

An Open Vision for Biologically-Embedded, Self-Powered Computing

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Vision Statement

I, Siddharth Pande, hereby present the open-source concept of the Living Cognitive Core (LCC) - a surgically implanted, genetically engineered biological processor that:

- Lives inside the human body as a permanent cognitive extension
- Derives energy not from electricity, but from nutrients in the blood (glucose, oxygen, amino acids)
- Uses living mitochondria to power its own computation
- Provides both processing power and memory to an external, non-laptop computing device
- Adapts, evolves, and grows over time in sync with the host's biological and cognitive health
- Encourages physical well-being by making computing performance directly dependent on the user's fitness
- Interfaces wirelessly or biochemically with external systems without the need for traditional silicon storage

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Technical Summary

- Type: Implantable biological processor
- Power Source: Mitochondria using host's nutrients
- Interface: Wireless neural signal translator or bio-port
- Memory System: Biochemical or neural-synaptic (programmable)
- Core Logic: Bioelectrical event-driven architecture
- Function: CPU, RAM, and persistent memory substitute
- Evolution: Adapts based on usage, health, and environmental conditions